# Translation

#### PATENT COOPERATION TREATY



### **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		See Notification of Transmittal of International				
Applicant's or agent's file reference P229203PC-La	FOR FURTHER ACTIO	Preliminary Examination Report (Portil PCT/II Erg-15)				
nternational application No.	International filing date (d					
PCT/DE2003/003702	05 November 2003 (					
nternational Patent Classification (IPC) or C07D 491/14, A61P 35/00	national classification and IP	С				
Applicant	SALAMA, Zo	oser, B.				
and is transmitted to the applicant	according to 7 bases a se	pared by this International Preliminary Examining Authority				
<ol> <li>This REPORT consists of a total of 6 sheets, including this cover sheet.</li> </ol>						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of 8 sheets.						
3. This report contains indications relating to the following items:						
Basis of the report						
II Priority						
III Non-establishme	ent of opinion with regard to	novelty, inventive step and industrial applicability				
I ack of unity of	invention					
V citations and explanations supporting such statement under Article 35(2) with regard to novelty, inventive step or industrial applicabilit citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in the international application						
VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of this report				
21 December 2004 (	21.12.2004)	16 August 2005 (16.08.2005)				
Name and mailing address of the IPEA	VEP	Authorized officer				
		Telephone No.				

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INI	INTERNATIONALIMENT							
. Basis o	f the rep	ort .						
. With r	egard to t	he elements of the international application:*						
	the interr	ational application as originally filed						
$\boxtimes$	the desci	iption: , as originally filed						
	pages	1-36 , filed with the demand						
DARCS CITED With the letter Of								
pages, nied with the fetter of								
	the clair	ns: , as originally filed						
_	pages	, as amended (together with any statement under Article 19						
	pages	, filed with the definance						
ł	pages	1-39, filed with the letter of 01 April 2005 (01.04.2005)						
l	pages							
	the dra	wings: , as originally filed						
_	pages	wings:						
1	pages	, filed with the letter of						
l	pages							
$\Gamma$	the sequ	ence listing part of the description:						
_	pages	, filed with the demand						
1	pages	filed with the letter of						
1	pages	to the language, all the elements marked above were available or furnished to this Authority in the language in which real condication was filed, unless otherwise indicated under this item.						
2. W	nese elem	to the language, all the elements marked solver we mader this item.  and application was filed, unless otherwise indicated under this item.  which is: ents were available or furnished to this Authority in the following language ents were available or furnished for the purposes of international search (under Rule 23.1(b)).  anguage of publication of the international application (under Rule 48.3(b)).  anguage of publication furnished for the purposes of international preliminary examination (under Rule 55.2 and/ anguage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/						
3. V	the language of the translation terminations or 55.3).  3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:							
l P		the the intermetional application in written form.						
1 }	= 000	d together with the international application in computer readable form.						
1 1	<b>-</b>	to administrative to this Authority in written form.						
- 1 3	H	nished subsequently to this Authority in computer readable form.						
	The subsequently furnished written sequence having							
1	Th.	e statement that the sided has been furnished.  entational application as filed has been furnished.  e statement that the information recorded in computer readable form is identical to the written sequence listing has  en furnished.						
4.	Пп	ne amendments have resulted in the cancellation of:						
1*	٦٣	the description, pages						
- 1	۲	the claims, Nos.						
	F	5						
5.		his report has been established as if (some of) the amendments had not been made, since they have been considered to go						
.	Replace	ment sheets which have been furnished to the receiving Office in response to an invitation under Article 14 and of the receiving Office in response to an invitation under Article 14 and are not annexed to this report since they do not contain amendments (Rule 70.1).						
- 1.	and 70.	report as the containing such amendments must be referred to under item 1 and annexed to this report. Jacement sheet containing such amendments must be referred to under item 1 and annexed to this report.						
١.	* Any rep	асетии зноет остана						

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and industrial applicability							
III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be							
The questions whether the claimed inventoring appearance industrially applicable have not been examined in respect of:							
the entire international application.							
claims Nos6-26, 39							
because: 5-26, 39							
the said international application, or the said claims Nos. 5-26, 39 relate to the following subject matter which does not require an international preliminary examination (specify):							
SEE ADDITIONAL SHEET							
the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):							
the claims, or said claims Nosare so inadequately supported							
by the description that no meaningful opinion establishment							
no international search report has been established for said claims Nos.							
<ol><li>A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:</li></ol>							
the written form has not been furnished or does not comply with the standard.							
the computer readable form has not been furnished or does not comply with the standard.							

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: BOX III.1

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 6-26 and 39 relate to subject matter which, 1. in the opinion of the Examiner, falls under PCT Rule 67.1(iv). Consequently, no opinion is formed on the industrial applicability of the subject matter of these claims (PCT Article 34(4)(a)(i)).

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YES

NO

1-5, 27-38

6-26, 39

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-39	YES			
	Noveley (11)	Claims		NO			
	Inventive step (IS)	Claims	1-39	YES			
	Inventive step (13)	Claims		NO			

Claims

Claims

#### Citations and explanations

Industrial applicability (IA)

 WO 02/092085 A (CHAE SOO-WAN; EUN JAE-SOON (KR); JUNG YOUNG HOON (KR); KIM DAE-KEUN), 21 November
 2002 (2002-11-21) (D1) discloses on page 7 the compound 4, and on page 1, lines 5 and 6, its use in general terms in pharmaceutical mixtures.

GRYNKIEWICZ G ET AL: "Synthesis and biological activity of O-acyl and O-alkyl chelidonine derivatives", EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, EDITIONS SCIENTIFIQUES ELSEVIER, PARIS, FR, Vol. 36, No. 11-12, November 2001 (2001-11), pages 951-960, XP004400915, ISSN: 0223-5234 (D2) discloses on page 953 the compound 3a and in the abstract its use in pharmaceutical mixtures.

Since the above-mentioned compound was deleted from the original claims, the subject matter of the present claims 1-5 and 38 is novel (PCT Article 33(2)).

 The chelidonine acetate disclosed in D1 and D2 is not described therein as an antitumoral agent, but rather as an anti-arrhythmic agent (D1) or in its effect upon the central nervous system (D2). Consequently, a person skilled in the art seeking for antitumoral agents would not fall back upon D1 or D2 or modify the compounds described therein with any reasonable hope of success.

The subject matter of the present claims 1-5 and 38 can therefore also be regarded as being inventive (PCT Article 33(3)).

- 3. The subject matter of the present claims 6-26 and 39 cannot be found in the prior art (PCT Article 33(2)) because chelidonine acetate is not described as an antitumoral agent in D1 and D2, which represent the structurally closest prior art. Moreover, the applicant was also able to demonstrate the effectiveness of said compounds, and therefore both novelty (PCT Article 33(2)) and inventive step (PCT Article 33(3)) can be recognised in the present claims 6-26 and 39.
- 4. In the PCT Contracting States, there are no uniform criteria for assessing the industrial applicability of Claims 6-26 and 39 in their present form. Patentability can also depend on the wording of the claims. The EPO, for example, does not recognise the industrial applicability of claims to the use of a compound in a medical treatment; it does, however, allow claims to the first use of a known compound in a medical treatment or to the use of such a compound in the manufacture of a drug for a new medical treatment.
- Pursuant to PCT Rule 5.1(a)(ii), D1 and D2 should be acknowledged in the description.